

C-22

LEMBAR
HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW
KARYA ILMIAH : PROSIDING

Judul Karya Ilmiah : Design of Color Based Object Sorting Through Arm Manipulator with Inverse Kinematics Method
 Jumlah Penulis : 3 Orang
 Status Pengusul : Penulis Utama
 Identitas Prosiding : a. Judul Prosiding : 3rd International Conference on Information Technology, Computer and Electrical Engineering (ICITACEE 2016)
 b. ISBN/ISSN : 978-1-5090-1434-7, Hal : 117-122
 c. Thn Terbit, Tempat Pelaks. : 19-21 Oktober 2016
 d. Penerbit/Organiser : Department of Electrical Engineering, Diponegoro University
 e. Alamat Repository/Web : <https://www.scimagojr.com/journalsearch.php?q=21100812376&tip=sid&clean=0>
 f. Alamat Artikel : <http://icitacee.undip.ac.id/index.php/icitacee/2016>
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Kategori Publikasi Makalah : ☐ Prosiding Forum Ilmiah Internasional
 (beri ✓ pada kategori yang tepat) ☒ Prosiding Forum Ilmiah Nasional

Hasil Penilaian Peer Review :

Komponen Yang Dinilai	Nilai Maksimal Prosiding		Nilai Akhir Yang Diperoleh
	Internasional <input type="checkbox"/>	Nasional <input type="checkbox"/>	
a. Kelengkapan unsur isi prosiding (10%)	3,0		3
b. Ruang lingkup dan kedalaman pembahasan (30%)	9,0		9
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	9,0		9
d. Kelengkapan unsur dan kualitas terbitan/prosiding(30%)	9,0		9
Total = (100%)	30,0		28
$28 \times 0,6 = 16,8$			

Catatan Penilaian Paper oleh Reviewer :

1. Kesesuaian dan kelengkapan unsur isi paper: Semua unsur dlm sebuah paper seperti judul, Abstrak, Introduction, Method & conclusion. telah memenuhi kesesuaian yang baik.
2. Ruang lingkup dan kedalaman pembahasan: materi yang dibahas dibahas relatif mendalam & ruang lingkup pembahasan sdh sangat jelas.
3. Kecukupan dan kemutakhiran data/informasi dan metodologi: metodologi yang digunakan dlm tulisan ini telah ditulis sangat jelas & terstruktur.
4. Kelengkapan unsur dan kualitas terbitan: sejumlah persamaan dlm tulisan ini masih perlu pertambahan. Spt. pers. 4, 5 & 6.

Semarang,
 Reviewer 1

Dr. Iwan Setiawan, ST, MT
 NIP. 197309262000121001
 Unit Kerja : Teknik Elektro FT UNDIP

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Komponen Yang Dinilai	Nilai Maksimal Prosiding		Nilai Akhir Yang Diperoleh
	Internasional <input type="checkbox"/>	Nasional <input type="checkbox"/>	
a. Kelengkapan unsur isi prosiding (10%)	3,0		3
b. Ruang lingkup dan kedalaman pembahasan (30%)	9,0		9
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	9,0		8
d. Kelengkapan unsur dan kualitas terbitan/prosiding(30%)	9,0		8
Total = (100%)	30,0		28
$28 \times 0,6 = 16,8$			

Catatan Penilaian Paper oleh Reviewer :

- a) Kesesuaian dan kelengkapan unsur isi paper: paper penulis adalah tentang prosiding, perancang dan metode, hasil penelitian dan pembahasan, kesimpulan. Semua
- b) Ruang lingkup dan kedalaman pembahasan: penulis terdapat keseluruhan penelitian cukup mendalam. Untuk penelitian yang ada dan pembahasan yang di hasil penelitian yang di sampaikan
- c) Kecukupan dan kemutakhiran data/informasi dan metodologi: kebalikan dari prosiding metode yg. digunakan cukup untuk data pembahasan dan hasil referensi yg. kurang dari 5 th tidak ada referensi
- d) Kelengkapan unsur dan kualitas terbitan: paper prosiding, kualitas di tingkat ps. Semua unsur nasional terbitan, harga kualitas terbitan kurang bagus ada beberapa variasi dan yg. bisa terbitan & ada penulis akan standar Indonesia (26.7, 8, 9, 10).

Semarang,
Reviewer 2

Dr. Wahyudi, S.T., M.T.
NIP. 196906121994031001
Unit Kerja : Teknik Elektro FT UNDIP

**LEMBAR
HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW
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Kategori Publikasi Makalah : ☐ Prosiding Forum Ilmiah Internasional
 (beri ✓ pada kategori yang tepat) ☒ Prosiding Forum Ilmiah Nasional

Hasil Penilaian *Peer Review* :

Komponen Yang Dinilai	Nilai Reviewer		Nilai Rata-rata
	Reviewer I	Reviewer II	
a. Kelengkapan unsur isi prosiding (10%)	3	3	3
b. Ruang lingkup dan kedalaman pembahasan (30%)	9	9	9
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	9	8	8,5
d. Kelengkapan unsur dan kualitas terbitan/prosiding(30%)	7	8	7,5
Total = (100%)	28	28	28

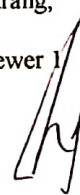
Reviewer 2



Dr. Wahyudi, S.T., M.T.
 NIP. 196906121994031001
 Unit Kerja : Teknik Elektro FT UNDIP

Semarang,

Reviewer 1



Dr. Iwan Setiawan, ST, MT
 NIP. 197309262000121001
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4 April 2017, Article number 7892422, Pages 117-122
3rd International Conference on Information Technology, Computer, and Electrical Engineering, ICITACEE 2016; Hom HotelSemarang; Indonesia; 19 October 2016 through 21 October 2016; Category numberCFP1689Z-PRT; Code 127215

Design of color based object sorting through arm manipulator with inverse kinematics method (Conference Paper)

Sumardi, Febriramadhan, L., Triwiyatno, A.

Department of Electrical Engineering, Diponegoro University, Semarang, Indonesia

Abstract

View references (10)

Arm manipulator is one type of robot that is widely applied in the industrial world. Robots of this type are commonly used to help people in the hard work, dangerous or repetitive work. Arm manipulator application that has been widely used are for welding, painting, drilling, and displacement. There are two methods of motion in the arm manipulator development, they are forward kinematics and inverse kinematics. In this research, a 3 DOF arm manipulator prototype designed as sorting object by color. The arm manipulator's prototype using inverse kinematics motion in determining the position of the sorted object transfer. In sorting this object is used as a sensor photodiode detector and distinguishing colors object are sorted. The output of this research is to produce a 3 DOF arm manipulator prototype that can move and sort object by it's color. In this research, the average yield on a standard deviation is 0.866 cm for X axis and the Y axis is 1.197 cm. The standard deviation is obtained from 4 kinds of the test site sorting of object variations. © 2016 IEEE.

SciVal Topic Prominence ⓘ

Topic: Inverse kinematics | Manipulators | serial manipulators

Prominence percentile: 72.137 ⓘ

Author keywords

3 DOF arm manipulator Inverse Kinematics Photodiode Sorting object

Indexed keywords

Engineering controlled terms: Color Industrial manipulators Inverse kinematics Inverse problems Kinematics Object detection Photodiodes Statistics

Engineering uncontrolled terms: Forward kinematics Inverse kinematics motion Manipulator prototypes Object sorting Object transfers Photodiode detector Repetitive works Standard deviation

Engineering main heading: Manipulators

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Ganin, P. , Kobrin, A. (2018) *2018 4th International Conference on Information Technologies in Engineering Education, Inforino 2018 - Proceedings*
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IEEE

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2016 3rd International Conference on Information Technology, Computer, and Electrical Engineering (ICITACEE 2016)

October 19-21st, 2016, Semarang, Indonesia

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Mochammad Facta
Munawar Agus Riyadi
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2016 3rd International Conference on Information Technology, Computer, and Electrical Engineering (ICITACEE)

October 19th – 21st, 2016 at @HOM Hotel, Semarang, INDONESIA

ICITACEE 2016 Conference Technical Program Overview

A1. Electric & Power System (Wednesday: October 19th, 2016. 12:30-14:45) LEXICON

No	Paper ID	Title	Authors
1	EPS-01	Investigation of Themperature Rise Considering the Stator Parameters in a High-Speed Spindle Motor	Wawan Purwanto, Jerry Chih Tsong Su
2	EPS-02	Voltage Balancing Circuits for Five-Level Power Inverter With A Single DC Voltage Source	Suroso, Abdullah Nur Aziz
3	EPS-03	The Use of Neural Network (NN) to Predict Voltage Drop during Starting of Medium Voltage Induction Motor	Fidelis Galla Limbong
4	EPS-04	Research on Positive Narrow Bipolar Events in Padang	Ariadi Hazmi, Primas Emeraldi, M. Imran Hamid, Nobuyaki Takagi
5	EPS-05	Minimization of Cogging Torque Based on Different Shape of Anti Notch Method	Herlina, Rudy Setiabudy, Uno Bintang Sudibyo
6	EPS-06	Investigation the Influence of Variation Number and different width of Anti Notch to Cogging Torque Reduction	Rudy Setiabudy, Herlina
7	EPS-07	Voltage Drop Simulation at Southern Sulawesi Power System Considering Composite Load Model	Ardiaty Arief, Muhammad Bachtiar Nappu
8	EPS-08	Analytical Design of Sea Wave Energy Power Plant Using Tubular Linear PM Generator in Southern Coast of Yogyakarta, Indonesia	Budi Azhari, Fransisco Danang Wijaya, Dewangga Adhyaksa, Wassy Prawinnetou
9	EPS-09	Reduction on Cogging Torque in Dual Stator Radial Flux Permanent Magnet Generator for Low Speed Wind Turbine	Adeguna Ridlo Pramurti, Eka Firmansyah, Suharyanto

A2. Electric & Power System (Wednesday: October 19th, 2016. 15:15-17:30) LEXICON

No	Paper ID	Title	Authors
1	EPS-10	Network Losses Reduction Due To New Hydro Power Plant Integration	Muhammad Bachtiar Nappu, Muhammad Imran Bachtiar, Ardiaty Arief

No	Paper ID	Title	Authors
2	EPS-11	Electrical and Temperature Correlation to Monitor Fault Condition of ZnO Surge Arrester	Novizon and Zulkarnain Abdul-Malek
3	EPS-12	Discrimination of Particle-Initiated Defects in Gas-Insulated System Using C4.5 Algorithm	Firmansyah Nur Budiman, Elvira Sukma Wahyuni
4	EPS-13	Enhanced Fault Ride -Through Ability of DFIG-Based Wind Energy System Using Superconducting Fault Current Limiter	Chandan Kumar Sharma, Subhendu Sekhar Sahoo, Kalyan Chatterjee
5	EPS-14	Design of Photovoltaic BLDC Motor-Water Pump System with Single Converter	Slamet Riyadi
6	EPS-15	Integrated LC Resonant Converter and Silent Discharge Ozonizer for Colour Removal	Mochammad Facta, Hermawan, Zolkafle Buntat
7	EPS-17	A Prototype of Multistage Dynamic Braking of Three Phase Squirrel Cage Induction Motor	Tejo Sukmadi, Syauqie Candra Buana, Trias Andromeda, Mochammad Facta
8	EPS-18	Application of Dielectric Barrier Discharge Plasma for Reducing Chemical Oxygen Demand (COD) on Industrial Rubber Waste Treatment	Abdul Syakur, Badrus Zaman, Fauzan, Nur Jannah, Nurmaliakasih Dias Yunita

B1. Electronic Circuit & Control (Wednesday: October 19th, 2016. 12:30-14:45) OLIVETTI

No	Paper ID	Title	Authors
1	ECC-01	Human Tracking Application in a Certain Closed Area Using RFID Sensors and IP Camera	Daniel Patricko Hutabarat, Darma Patria, Santoso Budijono, Robby Saleh
2	ECC-02	Designing And Implementation Of Autonomous Quadrotor As Unmanned Aerial Vehicle	Felix Yustian Setiono, Anthony Candrasaputra, Tobias Bimo Prasetyo, Kho Lukas Budi Santoso
3	ECC-03	Multi Channel Electromyography (EMG) Signal Acquisition based Microcontroller	Florentinus Budi Setiawan, Siswanto
4	ECC-04	ECG Signal Processing using Offline-Wavelet Transform Method based on ECG-IoT Device	Amri Faizal, Muhammad Ilham R, and Arjon Turnip
5	ECC-06	Trans-impedance Amplifier (TIA) Design for Visible Light Communication (VLC) using Commercially Available OP-AMP	Syifaul Fuada, Angga Pratama, Trio Adiono, Yulian Aska

No	Paper ID	Title	Authors
6	ECC-07	Robot Arm Controlled By Muscle Tension Based On Electromyography And PIC18f4550	Ricky Fajar Adiputra, Florentinus Budi Setiawan
7	ECC-08	A Low Cost Anthropomorphic Prosthetic hand Using DC Micro Metal Gear motor	Mochammad Ariyanto, Munadi, Gunawan D. Haryadi, Rifky Ismail, Jonny A. Pakpahan, and Khusnul A. Mustaqim
8	ECC-09	New watershed segmentation algorithm based on hybrid gradient and self-adaptive marker extraction	Li Yuan, Yu Qingsong, Shen Chaomin, Hu Wenxin
9	ECC-10	Variations on Load and Distance Controller for Ropeless Elevator with Fuzzy	Ainil Syafitri, Iwa Garniwa MK, Iwa Garniwa MK, I Made Ardita
10	ECC-11	Fuzzy-PID Simulations on Ropeless Elevator Performance	Ainil Syafitri, Iwa Garniwa MK, Ridwan Gunawan, I Made Ardita
11	ECC-12	A Simple Proportional plus PD Sign for Asymptotically Stable Robot Manipulators	Adha Cahyadi, Samiadj Herdjunanto, Herianto
12	ECC-13	Arrival Time Field Based Path Planning Algorithm for Mobile Robot	Imaduddin A. Majid, Adha Imam Cahyadi, Igi Ardiyanto, and Muhammad Saifussalam

B2. Electronic Circuit & Control (Wednesday: October 19th, 2016. 15:15-17:30) OLIVETTI

No	Paper ID	Title	Authors
1	ECC-14	Design of Soft Contact Lens Indexer Inspection Semi Automatic	Didi Istardi, Kemas Syaiful
2	ECC-15	Yuarm: A Low Cost Android Platform for Vision Based Manipulators Control	Sisdarmanto Adinandra, Dani Erfawan
3	ECC-16	Development of Unmanned Aerial Vehicle (UAV) Ornithopter with Wireless Radio Control	Farika T Putri, Mochammad Ariyanto, Ismoyo Haryanto, Moh. Arozi, Wahyu Caesarendra, M. Rizki Ibrahim Hanan
4	ECC-17	Comparison Methods of Edge Detection for USG Images	M. Khairudin, Dessy Irmawati
5	ECC-18	Ultrasonic Signal Denoising Based on Wavelet Haar Decomposition Level	Herlinawati, Umi Murdika, Grienda Elan, Titin Yulianti



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No	Paper ID	Title	Authors
6	ECC-19	Sliding Mode Control for Therapeutic Pool Model Control System	Munadi, Henry Kristianto, Mochammad Ariyanto, Ismoyo Haryanto, Hari Peni Julianti
7	ECC-20	Experiment of Networked Control System (NCS) Using Network Emulator	Indra Sakti, Dicky Rianto Prajitno
8	ECC-21	Brainwave-Controlled Applications with the Emotiv EPOC Using Support Vector Machine	Kha Hoang Ha, Vo Anh Kha, Dinh Quoc Hung
9	ECC-22	Development of Hovercraft Prototype with Stability Control System using PID Controller	Munawar A Riyadi, Lazyo Rahmando, Aris Triwiyatno
10	ECC-23	Design of Color Based Object Sorting Through Arm Manipulator with Inverse Kinematics Method	Sumardi, Lanang Febriramadhan, Aris Triwiyatno
11	ECC-24	Designing Internal-External Control Method for Delta Robot Prototype to Manipulate Non-Linear Movement Object	Aris Triwiyatno, Muhammad Fikko Fadjrimiratno, Sumardi
12	ECC-25	Real Time Classification of SSVEP Brain Activity with Adaptive Feedforward Neural Networks	Arjon Turnip, M. Ilham Rizgyawan, Dwi Esti K, Jasman Pardede, Sandi Yanyoan, Edi Mulyana
13	ECC-28	Fuzzy-Mamdani Inference System in Predicting the Correlation Between Learning Method, Discipline and Motivation with Student's Achievement	Juningtyastuti, Fransiskus Allan Gunawan

C1. Information & Computer Technologies (Wednesday: October 19th, 2016. 12:30-14:45) OLYMPIA

No	Paper ID	Title	Authors
1	ICT-01	Calculation of Phantom Volume for Computed Tomography (CT) Scan Images	Kusworo Adi, Catur Edi Widodo, Aris Sugiharto, Qidir Maulana B. S., Adi Pamungkas
2	ICT-02	Design and Development of Android-based Cloud ECG Monitoring System	Muhammad Ilham Rizqyawan, M. Faizal Amri, Rian Putra Pratama, Arjon Turnip
3	ICT-03	Designing Framework for Software Reuse Maturity Improvement	Bagus Setyawan Wijaya, Yudi Satria Gondokaryono



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No	Paper ID	Title	Authors
4	ICT-04	Performance Evaluation of Teleprotection Using OpenDSS	Muhammad Kahlil Firdaus, Muhammad Hamdani Rizal, Muhammad Raid Mukhtar, Riri Fitri Sari
5	ICT-05	Design Architecture Enterprise Service Bus to Support Multi-Tenant Client and Resource Provider	Taufik Sulaeman Puspanegara, Albarda
6	ICT-06	Data Envelopment Analysis - Analytic Hierarchy Process Method for Performance Evaluation Study Program	Ali Wedo Sarjono, Farikhin Farikhin, Catur Edi Widodo
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2	ICT-15	Detection Plagiarism Documents On Indonesian Using Min-Hash And Synonym Recognition	Muhammad Badriansyah Putra



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5	ICT-18	Ontology Model For Complementary Breastfeeding Recipes	Sari Widya Sihwi, Athiyah, Afrizal Doewes
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7	ICT-20	Pattern Discovery of Indonesian Customers in an Online Shop: A Case of Fashion Online Shop	Rianto Rianto, Lukito Edi Nugroho, Paulus Insap Santosa
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2	ICT-29	Parameter Optimization Of Brown's And Holt's Double Exponential Smoothing Using Golden Section Method For Predicting Indonesian Crude Oil Price (ICP)	Nurrahim Dwi Saputra , Abdul Aziz, Bambang Harjito
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7	ICT-34	Optimizing MySQL Database System on Information Systems Research , publications and Community Service	Kodrat Iman Satoto, R. Rizal Isnanto, Rinta Kridalukmana , Kurniawan Teguh Martono,
8	ICT-35	Information Technology Audit For Management Evaluation Using COBIT and IT Security	Assaf Arief, Iis Hamsir Ayub Wahab
9	ICT-36	Performance Comparisons of Web Server Load Balancing Algorithms on HAProxy and Heartbeat	Agung B. Prasetyo, Eko D. Widiyanto and Ersya T. Hidayatullah
10	ICT-37	Performance Analysis of MAC Protocol for Resource Sharing D2D and M2M in Unlicensed Channel	Aghus Sofwan
11	ICT-38	Mobile Cloud Computing Security Using Cryptographic Hash Function Algorithm	Muhammad Arfan
12	ICT-39	On The Implementation of ZFS (Zettabyte File System) Storage System	Eko D. Widiyanto, Agung B. Prasetyo, and Ahmad Ghufri

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2	TRF-03	Implementation of Ultrasonic Communication for Wireless Body Area Network Using Amplitude Shift Keying Modulation	Muhammad Harry Bintang Pratama, Ajub Ajulian Zahra, Khusnil Mujib, Arif Munandar, Erizco Satya Wicaksono
3	TRF-04	Energy Efficiency Beamformers for K-User MIMO Interference Channels with Interference Alignment	Ha Hoang Kha, Tuan Do-Hong
4	TRF-05	Cyclic Prefix-based Noise Estimation with DVB-T Input for Spectrum Sensing in Cognitive Radio	Dzata Farahiyah, Trung Thanh Nguyen, Thomas Kaiser
5	TRF-06	Path Loss Model Estimation Based on Measurements of Off-Body and On-Body Communication Using Textile Antenna at 2.45 GHz	Basari, Novi Yohanna , Ria Aprilliyani, Rian Gilang Prabowo
6	TRF-07	Signal Analysis of GMSK Modulation-based CubeSat Automatic Identification System Receiver	Achmad Munir, Nazmi Febrian, Antrisha Daneraici Setiawan, Chairunnisa
7	TRF-08	Coupling Analysis of Isotropic and Anisotropic Dielectric Materials in Rectangular Waveguide	Muhammad Reza Hidayat, Achmad Munir
8	TRF-09	Effect of Element Number of SRR - based BPF to Its Characteristics	Mohammad Syahrul, Achmad Munir
9	TRF-10	Methods of MIMO Decoders for Very High Throughput WLAN IEEE802.11ac	Wahyul Amien Syafei, Zuhrotul Maulida, Imam Santoso
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Certificate

This is to certify that
Sumardi

has contributed as
Presenter

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